

**ICE DETECTOR FOR IMPROVED ICE DETECTION AT  
NEAR FREEZING CONDITION**

ABSTRACT OF THE DISCLOSURE

An ice detector for providing a signal  
5 indicating ice formation includes a longitudinally  
extending probe protruding into an airflow. One or  
more surface roughness features on surfaces of the  
probe improve ice detection. Surface roughness  
features on the probe include ice accreting edges at  
10 a distal end of the probe and features arranged on a  
side surface of the probe which cause the airflow to  
increase in turbulence.